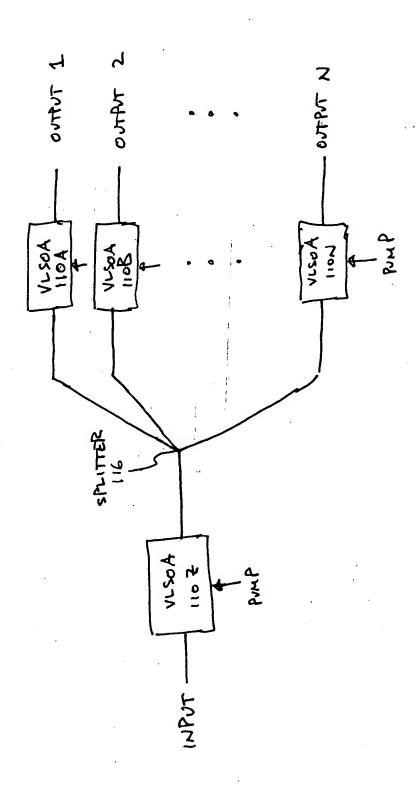
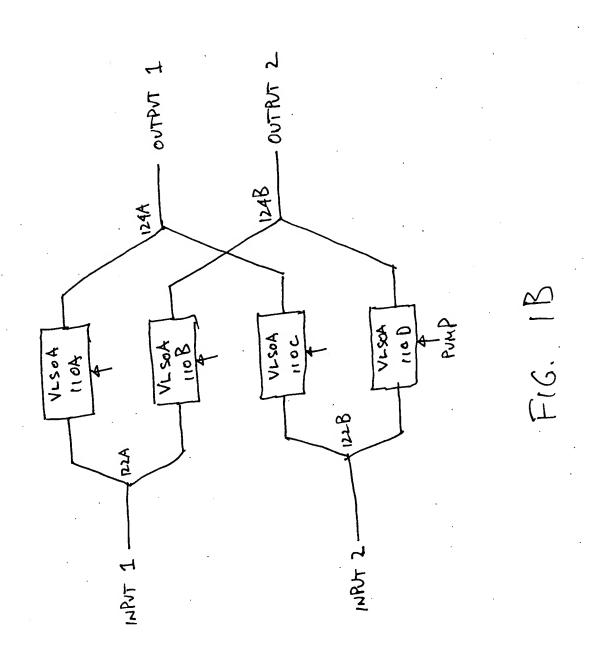
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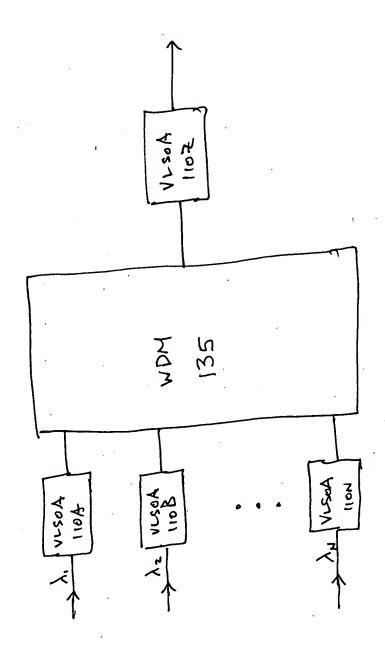
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F16. 1A



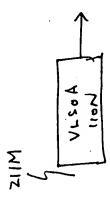
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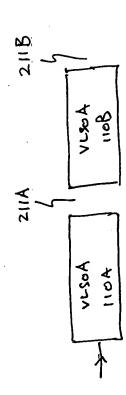


y

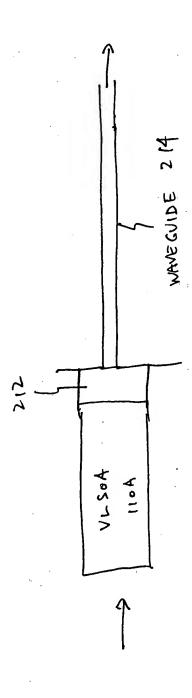
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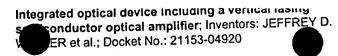


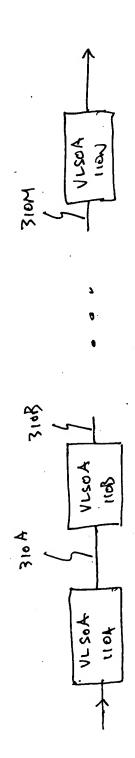


F16, 2B

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there eather will be to the



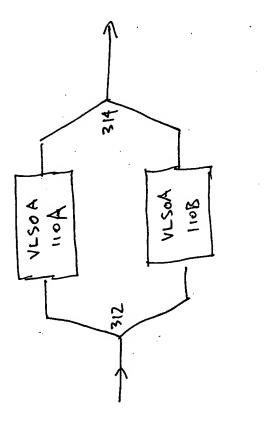


F16. 3A

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	VLSOA	0011	
	VLSOA	TOU	
	VLSOA	110B	
	VLSOA	110 A	
1		1	

76. 3B

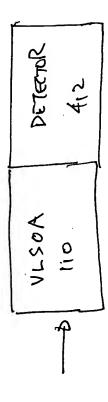




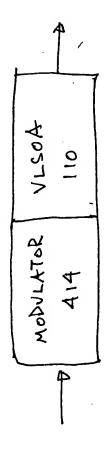
+16, 3(



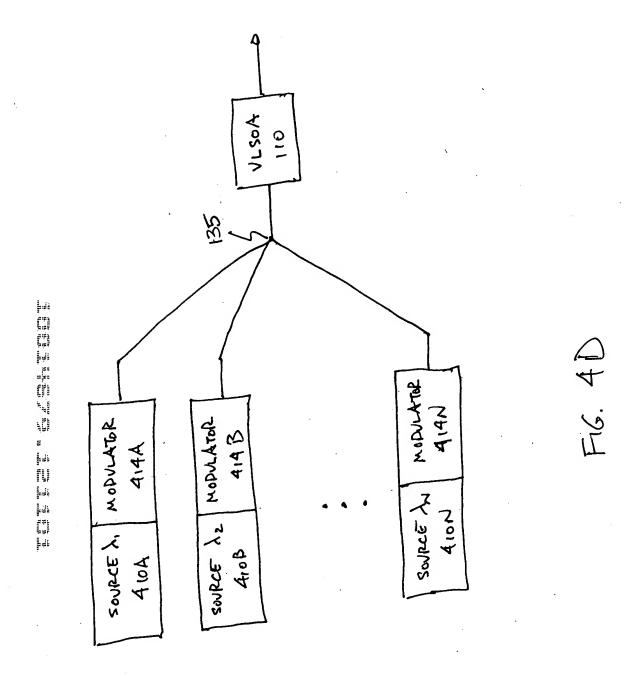
F16. 4A



F16. 4B



F1G. 4C



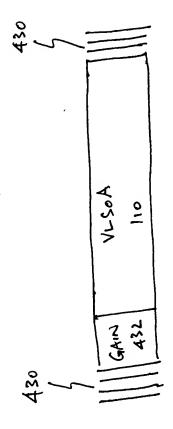
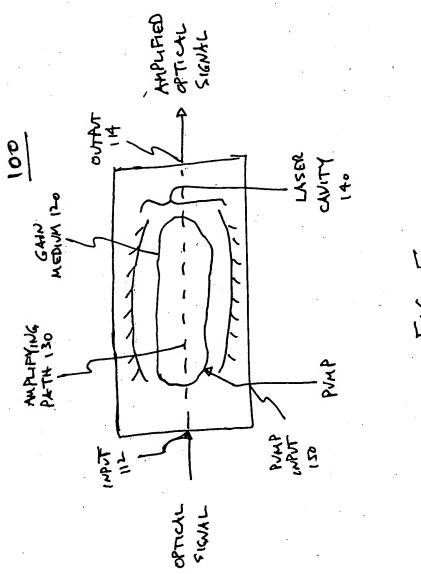


FIG. 4E





F(G. 5

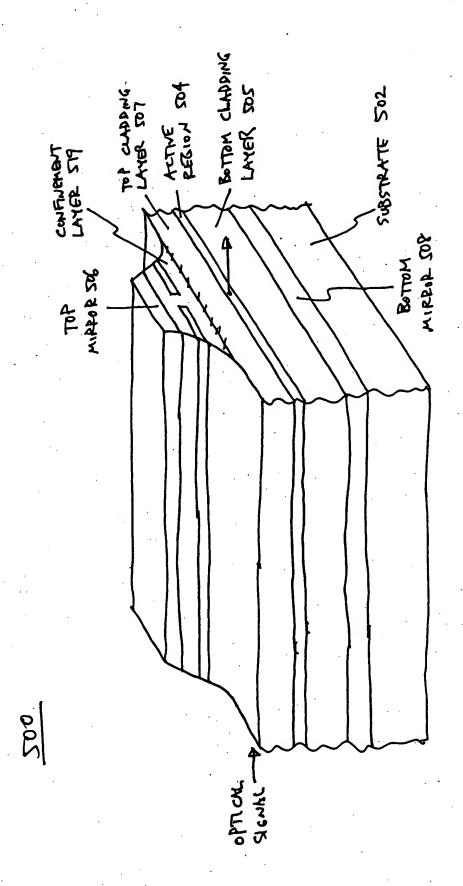
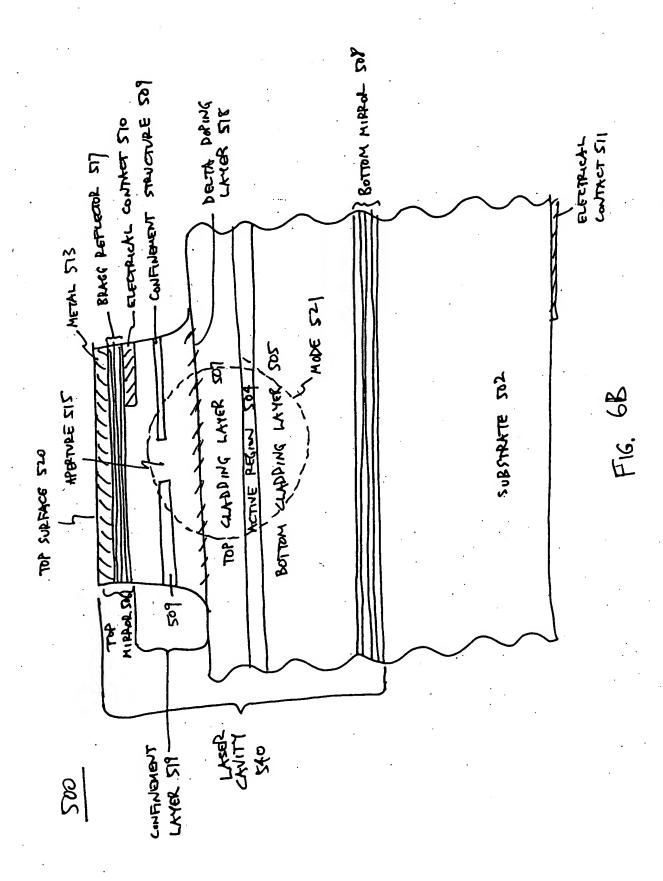
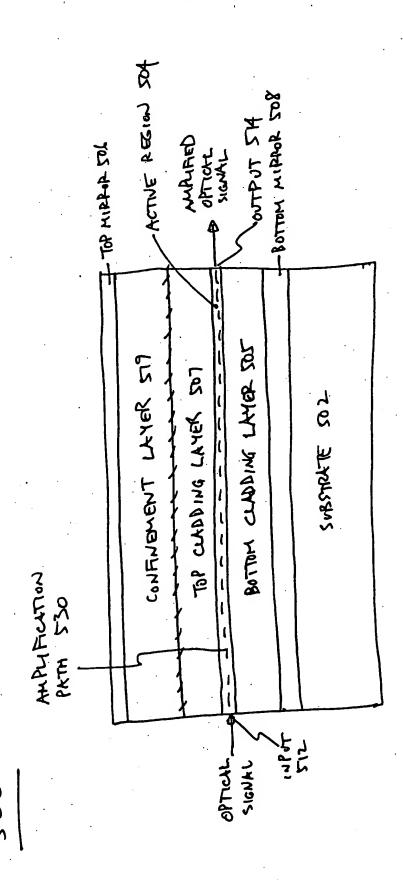


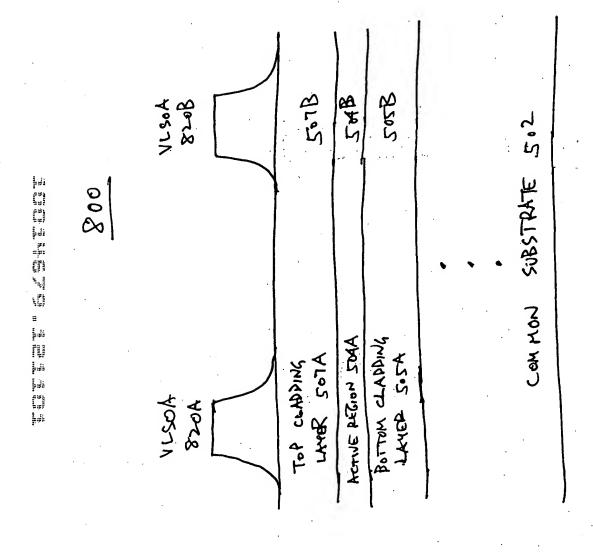
FIG. 6 A





F16. 6C

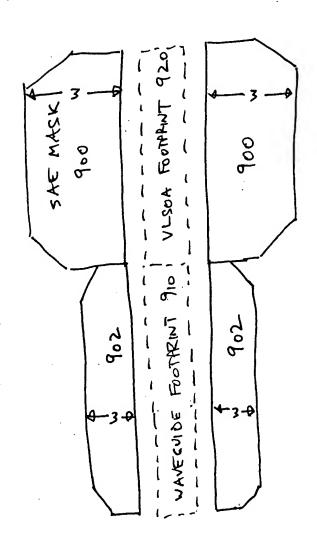
LAYER ACTIVE ACT	10101 LO	Top CLADING
SURSTR	LAYER TOT	Utter SOT
SURSTRA	CORE 704	ACTIVE PEGION 504
SUBSTRATE SOL	TTON CLAPPING	BOTTOM CLADDING
MANN SUBSTRATE	LAYER 705	
SURSTRATE		
	COMMON	SUBSTRATE 502



F16, 公

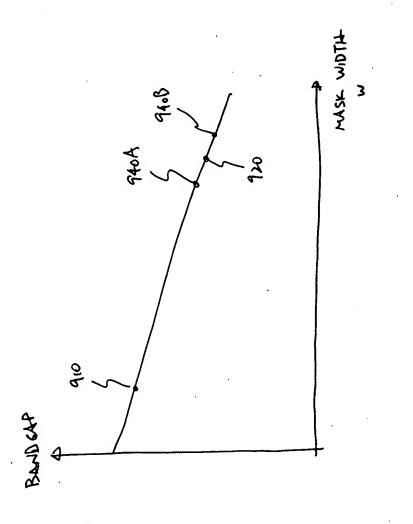
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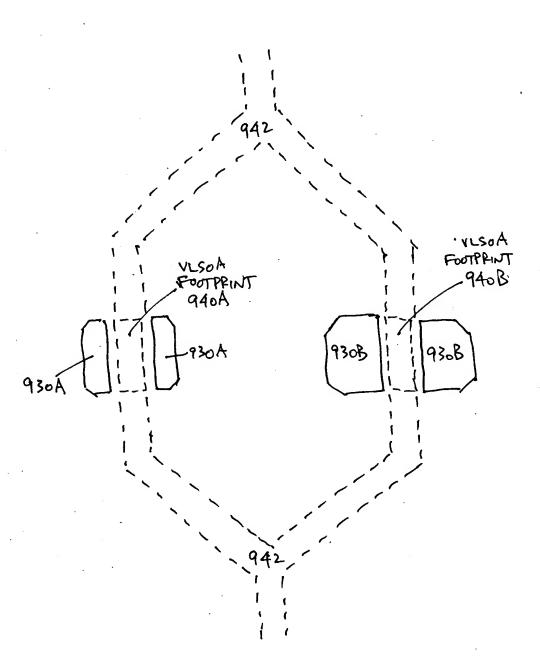
Integrated optical device including a vertical lasing iconductor optical amplifier; Inventors: JEF D. KER et al.; Docket No.: 21153-04920



F19.91







F16. 9C

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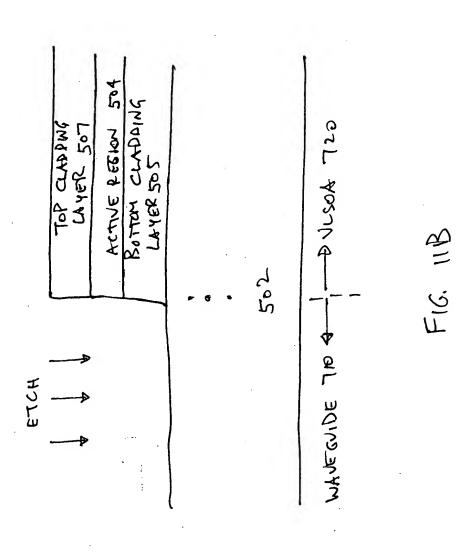
Į.ji - H. H. H. Integrated optical device including a vertical lasing miconductor optical amplifier; Inventors: JEFFREY D. LKER et al.; Docket No.: 21153-04920

11D MASK FOOT PRINT WAVEGUIDE FOOTPPINT 1029 1010

FIG. 10

TOP CLAPPING LAYER 507	ACTIVE REGION 504	BOTTOM CLADDING LATER 505		COMMON SUBSTRATE SOL	WAVECUIDE 710 4 1 D VLSOA 72 0	
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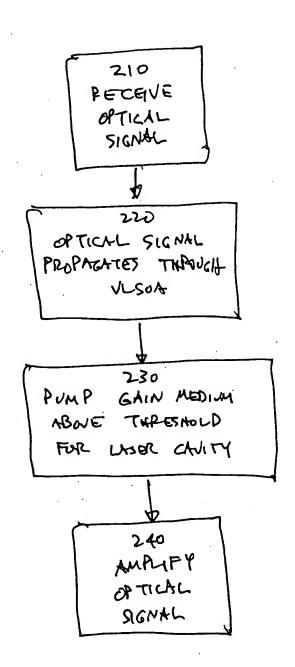




507	ACTIVE REGION 504	505	 4	ALLSOA 720	F16, 11 C
LOL	tol 300	ا کوا	205	WAVEGUIDE 710 4	F1G.

VLXA 720			40		$\overline{1}$
•	• •	BOTTOM CLADDING LAYER 505	ACTIVE REGION 504	LANGE SOT	S. Reyekt F 13.43
	LAVEGUIDE 710	TOP aLADDING LAYER TOT	CORE TOF	BOTTOM CLADDING LAYER TOS	1204 - 12

FIG. 12



F16. 13